

Submission Worksheet

Submission Data

Course: IT490-450-M2025

Assignment: IT490 MQ Test Individual

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Status: Submitted | **Worksheet Progress:** 98%

Potential Grade: 9.65/10.00 (96.50%)

Received Grade: 0.00/10.00 (0.00%)

Started: 6/9/2025 8:33:24 PM

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Grading Link: <https://learn.ethereallab.app/assignment/v3/IT490-450-M2025/it490-mq-test-individual/grading/am247>

View Link: <https://learn.ethereallab.app/assignment/v3/IT490-450-M2025/it490-mq-test-individual/view/am247>

Instructions

- Walkthrough: <https://youtu.be/tgT0ZAxccbQ>
- 1. Read all instructions and requirements first
- 2. Use any VM creation tool that gives you root access and persistent storage
 - VirtualBox, Multipass, cloud (Amazon, Google, Azure, etc) (Docker won't be an option here)
 - Create a hostname relevant to the assignment (i.e., test-individual)
 - Create a user of your ucid with a password, ensure relevant permissions
 - Hardware: 1GB Memory, 10GB Hard Drive
 - Install a server version of linux (i.e., Ubuntu Server 24.04)
 - Hint: You may want to get a base install working and use that as a cloning point for quicker destroy/create cycles
- 3. Use the example code from the master branch of <https://github.com/MattToegel/IT490>
- 4. Connect to the VM with two separate ssh connections
 - Run the RabbitMQServerSample.php file successfully in one instance
 - Run the RabbitMQClientSample.php file successfully in another instance
 - Proper data should be sent/received
- 5. Create a setup.sh script that automates the installation/setup logic
- 6. Fill in the below requirements
- 7. Submit and Export once done
- 8. Upload the PDF to your personal GitHub repo for the class
- 9. Upload the PDF to Canvas

Section #1: (7 pts.) Example Solution

Progress: 95%

≡ Task #1 (3.50 pts.) - Working Example

Progress: 100%

📄 Part 1:

Details:

- Demonstrate a successful send/receive of the example message
- Hostname should be test-individual or similar
- Username should be your uid

[illegible]

Message 1

```

RabbitMQClientSample.php &U
am247@tst-am247:~/IT406$ nano RabbitMQClientSample.php
am247@test-am247:~/IT406$ ls
api-sample.php  get host info.inc  path.inc  RabbitMQServerSample.php  testRabbitMQ.ini
composer.json  host.ini           rabbitMQLib.inc  test.md                  vendor
am247@test-am247:~/IT406$ nano rabbitMQLib.inc
am247:~/IT406$ php RabbitMQClientSample.php
PHP Warning: Undefined variable $ison_message in /home/am247/IT406/rabbitMQLib.inc on line 182
NULL
Sending message
object(PhpAmqpLib\Message\AMQPMessage)#28 (18) {
  ["body"]=>
  string(40) '{"message": "test message", "type": "echo"}'
  ["body_size"]=>
  NULL
  ["is_truncated"]=>
  bool(false)
  ["content_encoding"]=>
  NULL
  ["deliveryTag"]=>
  "PhpAmqpLib\Message\AMQPMessage":private]=>
  NULL
  ["consumerTag"]=>
  "PhpAmqpLib\Message\AMQPMessage":private]=>
  NULL
  ["redelivered"]=>
  "PhpAmqpLib\Message\AMQPMessage":private]=>
  NULL
  ["exchange"]=>
  "PhpAmqpLib\Message\AMQPMessage":private]=>
  NULL
}

```

Message 2

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≡ Part 2:

Details:

- Detail the initial setup experience and note things you had to address in order for the example to work

Your Response:

The initial setup was going well at first but I did find myself having to go back and install things again

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Task #2 (3.50 pts.) - Setup Script

Part 1:

Details:


- Show a snippet of the `setup.sh` script you created to automate the installation and configuration steps that lead up to a working example.

```
#!/bin/bash
# Setup script for IT490 project repository
# This script will install PHP, Composer, and RabbitMQ, and clone the IT490 repository.

# Check if the script is being run as root
if [ $(id -u) = 0 ]; then
    echo "This script should be run as root."
    exit 1
fi

# Update package list and install PHP and necessary extensions
echo "Updating package list and installing PHP and extensions..."
sudo apt-get update
sudo apt-get install -y php php-cli php-fpm php-mysql php-gd php-curl php-zip php-xml php-json php-intl php-mbstring php-redis php-sqlite3 php-imagick php-ldap php-mcrypt php-openssl php-pdo php-pdo-dblib php-pdo-pgsql php-pdo-oci8 php-pdo-odbc php-pdo-oci811 php-pdo-oci812 php-pdo-oci813 php-pdo-oci814 php-pdo-oci815 php-pdo-oci816 php-pdo-oci817 php-pdo-oci818 php-pdo-oci819 php-pdo-oci820 php-pdo-oci821 php-pdo-oci822 php-pdo-oci823 php-pdo-oci824 php-pdo-oci825 php-pdo-oci826 php-pdo-oci827 php-pdo-oci828 php-pdo-oci829 php-pdo-oci830 php-pdo-oci831 php-pdo-oci832 php-pdo-oci833 php-pdo-oci834 php-pdo-oci835 php-pdo-oci836 php-pdo-oci837 php-pdo-oci838 php-pdo-oci839 php-pdo-oci840 php-pdo-oci841 php-pdo-oci842 php-pdo-oci843 php-pdo-oci844 php-pdo-oci845 php-pdo-oci846 php-pdo-oci847 php-pdo-oci848 php-pdo-oci849 php-pdo-oci850 php-pdo-oci851 php-pdo-oci852 php-pdo-oci853 php-pdo-oci854 php-pdo-oci855 php-pdo-oci856 php-pdo-oci857 php-pdo-oci858 php-pdo-oci859 php-pdo-oci860 php-pdo-oci861 php-pdo-oci862 php-pdo-oci863 php-pdo-oci864 php-pdo-oci865 php-pdo-oci866 php-pdo-oci867 php-pdo-oci868 php-pdo-oci869 php-pdo-oci870 php-pdo-oci871 php-pdo-oci872 php-pdo-oci873 php-pdo-oci874 php-pdo-oci875 php-pdo-oci876 php-pdo-oci877 php-pdo-oci878 php-pdo-oci879 php-pdo-oci880 php-pdo-oci881 php-pdo-oci882 php-pdo-oci883 php-pdo-oci884 php-pdo-oci885 php-pdo-oci886 php-pdo-oci887 php-pdo-oci888 php-pdo-oci889 php-pdo-oci890 php-pdo-oci891 php-pdo-oci892 php-pdo-oci893 php-pdo-oci894 php-pdo-oci895 php-pdo-oci896 php-pdo-oci897 php-pdo-oci898 php-pdo-oci899 php-pdo-oci900
```

Missing Caption

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Part 2:

Progress: 100%

Details:

- Include the direct link to the file from your personal class repository


URL #1

<https://github.com/a-moli/IT490>



URL

<https://github.com/a-moli/IT490>

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Part 3:


Progress: 100%

Details:

- Briefly explain each step of the process in the script

Your Response:

1. Updates packages and upgrades existing software
2. Install php and nesccary extensions
3. Install composer
4. Add RabbitMQ repository to system sources
5. Update package list again and install RabbitMQ
6. Enable and start RabbitMQ service
7. Clone the IT490 project repository
8. Completion message with instructions

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Section #2: (3 pts.) Reflection

Progress: 100%

⇒ Task #1 (1 pt.) - What was the easiest part of this assignment

Progress: 100%

Details:

- At least a few solid sentences

Your Response:

Just installing virtualbox



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⇒ Task #2 (1 pt.) - What was the hardest part of this assignment

Progress: 100%

Details:

- At least a few solid sentences

Your Response:

Getting powershell to connect to VM



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⇒ Task #3 (1 pt.) - What did you learn during this assignment

Progress: 100%

Details:

- At least a few solid sentences

Your Response:

I learned about a lot more about ssh servers and connecting them





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